

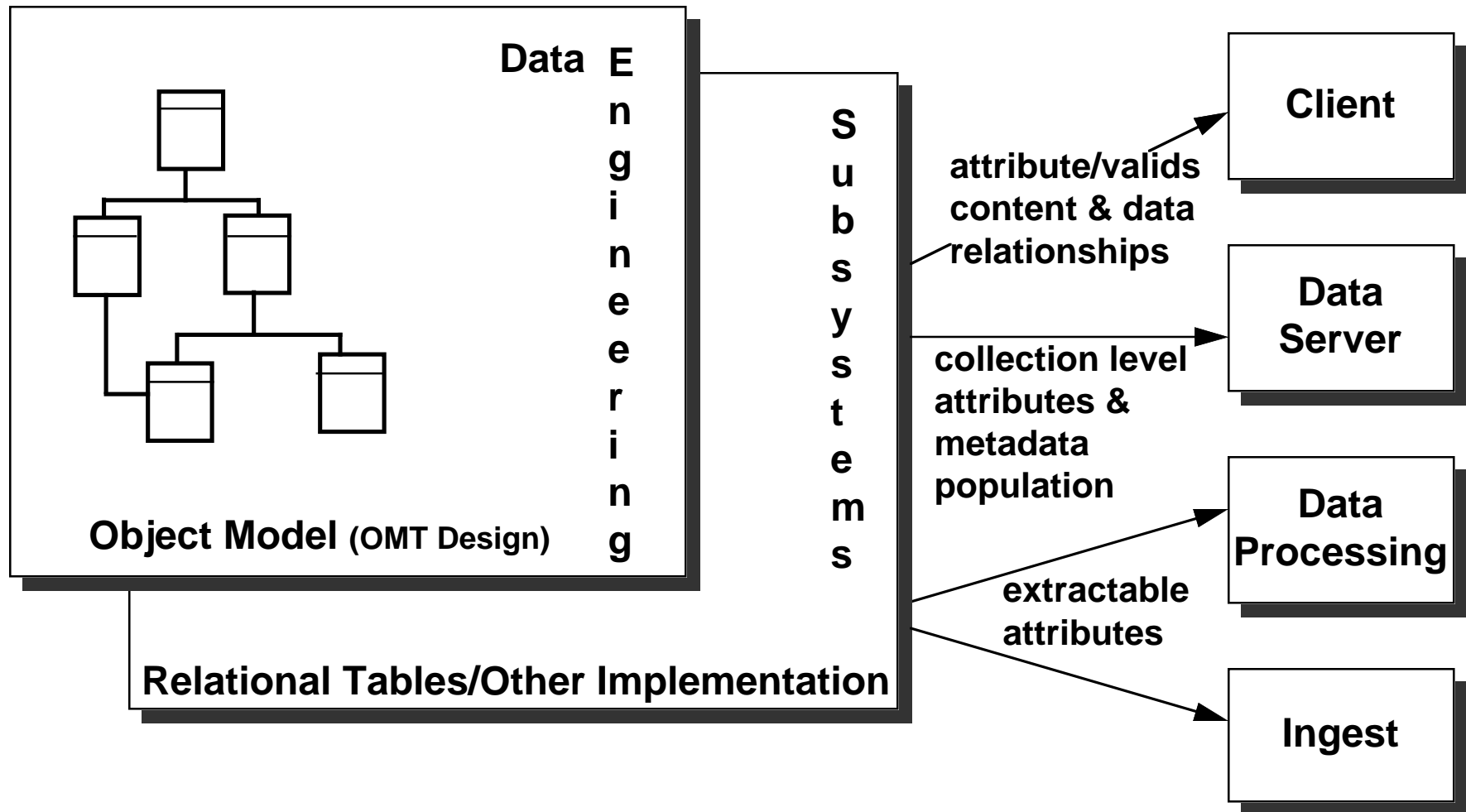
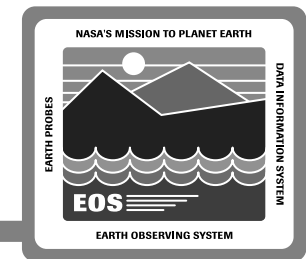
Data Modeling Overview

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**ECS Release A SDPS/CSMS Critical Design Review
14 August 1995**

Data Engineering Support



Progress Since PDR



Consolidated and refined the science metadata model and dictionary

- **Integrated the product specific server models**
 - **Retained identity of product specific attributes**
- **Refined and added annotations**
- **Updated the classes and attributes**
 - **Addressed comments received**

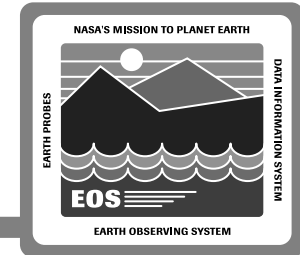
Re-vamped DID 311

- **Revised content for internal use**
- **Reduced 5 volumes to a single volume**
- **Revised the dictionary**
- **Added schema tables and usage statistics**

Developed a technical paper to help “pull” users understand ECS metadata

Developed a technical paper to address strategy for metadata population

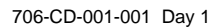
Progress Since PDR



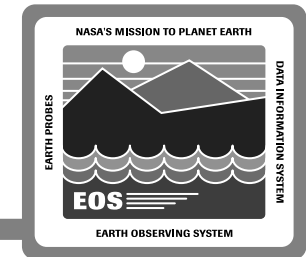
Sampling of review comments received and resultant changes

Concern	Source	Change(s) Made
Support for geographic map data and searching	Project/DAAC /DMWG	<ul style="list-style-type: none"> • Used applicable FGDC standards • Added domain values for map projections consistent w/SDP Toolkit 5 • Added classes/attributes
Metadata terminology consistency with science community	Project/DMWG	<ul style="list-style-type: none"> • Revised class/attribute names: (e.g., Source Module = DataOriginator, Data Object = ECSCollections)
HMI mappings	Project	<ul style="list-style-type: none"> • Documented these in the <u>User View</u>
Precision in data types	Project	<ul style="list-style-type: none"> • Used C++ annotation as a standard
Metadata population	Project/DMWG	<ul style="list-style-type: none"> • Documented in <u>Metadata Data Population Process</u>

The logo for the Earth Observing System (EOS) Data Information System (DIS) is a square emblem. At the top, it reads "NASA'S MISSION TO PLANET EARTH". The central graphic depicts a landscape with a sun or moon, mountains, and wavy lines representing water. The letters "EOS" are prominently displayed in the lower-left of the graphic. To the left of the emblem, the text "EARTH PROBES" is written vertically. To the right, "DATA INFORMATION SYSTEM" is written vertically. Below the emblem, the text "EARTH OBSERVING SYSTEM" is written horizontally.

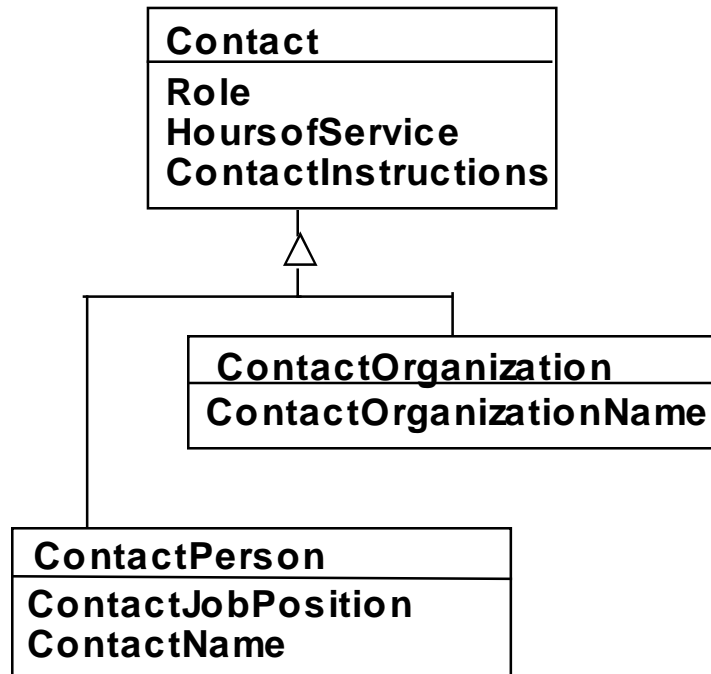


Creating Relational Tables

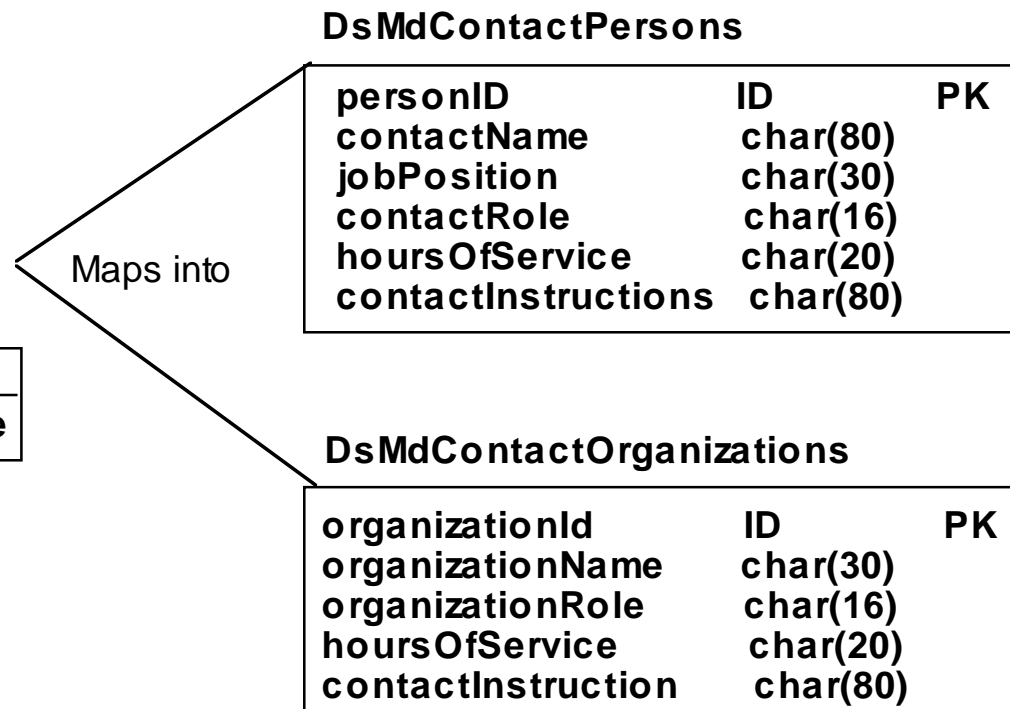


Getting from the Data Model to the Relational Tables

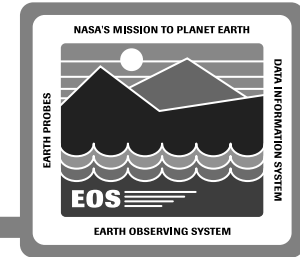
DATA MODEL



RELATIONAL TABLES



Document Tree



Data Modeling

SDPS
Database Design
& Database Schema
Specifications
(311-CD-002-003)

User View

Preliminary User View
of Release A Data
(Technical Paper
420-TP-005-001)

Data Population

Metadata Data
Population Process
(Technical Paper
420-TP-006-001)

User Guides

